

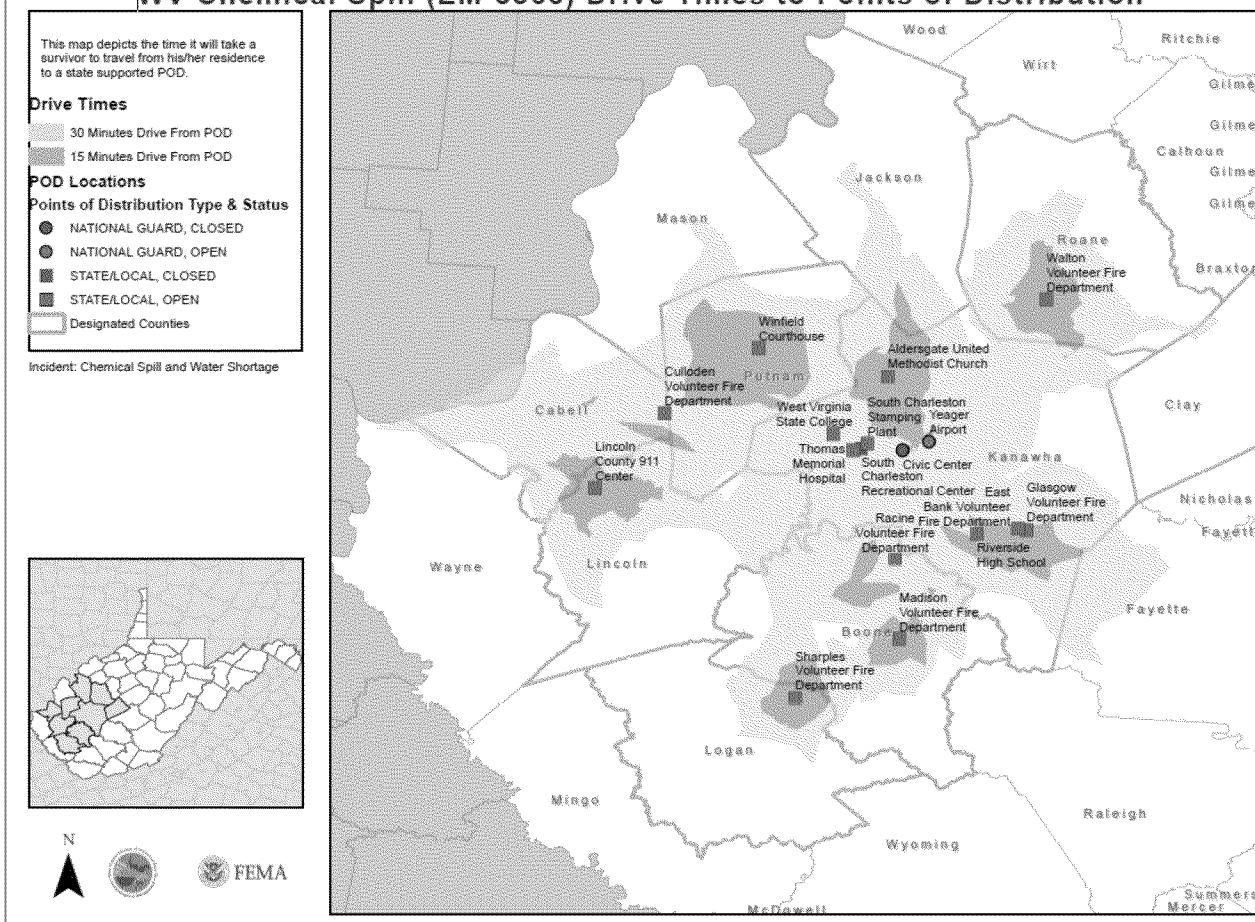
| | | | |
|-----------------------------------|--|--|--------------------|
| Incident Name WV Chemical Leak | Operational Period (January 10 th 2014 / 0630-1830) | Date Prepared: January 10 th , 2014 11:30 pm | Report No: # 05 |
|-----------------------------------|--|--|--------------------|

INCIDENT SUMMARY (As of 11:30 pm/January 10, 2014:)

Freedom Industries -- located at 1015 Barlow Dr. reported 5,000 gallons of 4-methylcyclohexane methanol, leaked through the facility's secondary containment and into the Elk River. West Virginia American water Company continues to monitor the spill, which occurred near the Kanawha Valley Water Treatment Plant. The leak has been stopped and a do not use order issued informing customers to not use the water for drinking, bathing, cooking or washing, but water can be used for the toilet or firefighting. The chemical has been detected as far as ten miles downstream. West Virginia American Water Company has increased certain chemicals, including activated carbon, to help oxidize the water supply. Ongoing collection and sampling will continue until the Environmental Protection Agency and the Centers for Disease and Control and Prevention agree on safe water levels

West Virginia Governor Earl Ray Tomblin has issued a state of emergency proclamation for 9 counties after a chemical leak in Kanawha County Thursday morning. The State of Emergency includes Boone, Jackson, Kanawha, Lincoln and Putnam Counties. Emergency may also exist for Cabell, Clay, Logan and Roane Counties. Boiling water will not get rid of the chemical. This is believed to impact approximately 100,000 customers (300,000 people). The President approved Emergency Declaration EM-3366 for the all 9 affected counties.

WV Chemical Spill (EM-3366) Drive Times to Points of Distribution



| | SAFETY | WATER | ENERGY | ACCESS | TRANSPORT | OTHER | EOC Level | State Dec | EM Requested | EM Declared | DR Requested | DR Declared | Notes |
|-----------|--------|----------------------------|--------|--------|-----------|-------|-----------|--|--------------|-------------|--------------|--------------------------------------|------------------|
| DC | G | G | G | G | G | G | Full | Y/N | | | | | CAT B - DFA Only |
| DE | G | G | G | G | G | G | | Y/N | | | | | |
| MD | G | G | G | G | G | G | | Y/N | | | | | |
| PA | G | G | G | G | G | G | | Y/N | | | | | |
| VA | G | G | G | G | G | G | | Y/N | | | | | |
| WV | G | G | G | G | G | G | | Y | | Y | | | |
| | G | A | G | G | G | G | | | | | | | |
| COLOR KEY | | GREEN-Under Control/Normal | | | | | | AMBER-Unstable Solution being implemented/Emerging | | | | RED-Unstable Solution in development | |

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Critical Issues (Safety and Sheltering, Water, Energy, Accessibility, Transportation, Other) | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> The State has issued a NO USE order for the affected area for the plant that would affect up to 100,000 customers, 300,000 residents, in Kanawha, Boone, Putnam, Lincoln, Logan, Clay, Cabell, Roane and Jackson counties. National Guard has joined in testing efforts of the water. Officials are NOT shutting down the water system. The State is anticipating a multi-day issue with no potable water as a result of a NO USE order. Water production loss is approximately 30-40 million gallons per day. An Emergency Declaration has been issued by FEMA for Category B (DFA) for the following nine counties: Boone, Clay, Jackson, Kanawha, Lincoln, Logan, Putnam, Roane and Cabell counties. Mike Lapinski has been selected as the FCO. | | | | | | | | | | | | | |

| FEMA TEAM | ACTIVATION LEVEL/STATUS | LOCATION |
|---------------------------------|----------------------------|---|
| RRCC | Level II | Region III RRCC 615 Chestnut St. Philadelphia, PA |
| REGIONAL WATCH | Normal Operations | |
| FCO WV-Mike Lapinski | Charleston, WV | |
| R3 IMAT 1 | DEPLOYED to PA 4149 | |
| R3 IMAT 2 | Deployed to Charleston, WV | |
| IMAT OTHER | | |
| MERS | Arrived in Charleston, WV | Yeager staging area |
| STAGING AREA (Yeager Air Field) | | |
| USAR TEAMS | | |

Life Safety Operations (expandable)

| | |
|--------------------------------|----|
| Search and Rescue | NA |
| Evacuation Operations | NA |
| DMAT | NA |
| NDMS | NA |
| HCF Evacuations/Restoration | NA |

KEY REGIONAL METRICS

Critical Infrastructure

| Metric | DC | DE | MD | PA | VA | WV | Total |
|--|-----|----|----|-------|-----|---|-------|
| Power Customers Out | 348 | 0 | 28 | 2,141 | 493 | 15 | 3,025 |
| Change in Power Customers out from previous situation report | | | | | | | |
| Telecommunications Outages (customers impacted) | | | | | | None reported due to incident | |
| Waste/Drinking Water Treatment Plants Out | | | | | | 1 Drinking Water Treatment Plant affected | 1 |
| Boil Water Advisories | | | | | | No use orders are currently in effect within the 9 counties | |
| # of Customers Impacted | | | | | | Up to 100,000 customers (300,000 people) | |
| | | | | | | | |

Health and Medical (ESF-8)

| Metric | DC | DE | MD | PA | VA | WV | Total |
|--------------------------|----|----|----|----|----|----|-------|
| #Fatalities | | | | | | NA | |
| #Injuries | | | | | | NA | |
| #Hospitals Evacuated | | | | | | NA | |
| #Nursing Homes Evacuated | | | | | | NA | |

| Metric | DC | DE | MD | PA | VA | WV | Total |
|--|----|----|----|----|----|-------------------------|-------|
| # of Schools/# school systems affected | | | | | | 17 schools in Boone Co. | 168 |

| | | | | | | | |
|-----------------------------|--|--|--|--|--|--|-------|
| | | | | | | 1 school in Cabell Co. 14 schools in Jackson Co. 6 schools in Clay Co. 93 schools in Kanawha Co. (plus one scheduled to be closed for maintenance) 10 schools in Lincoln Co. 27 schools in Putnam Co. | (est) |
| Shelters Open/Closed | | | | | | NA | |
| Shelter Population (people) | | | | | | NA | |
| Animal Sheltering Activated | | | | | | NA | |
| # People needing meals | | | | | | NA | |

Mass Care (ESF-6)

| State | # of Shelters on stand by | # of Shelters Open | Shelter Pop. | Household Pet Shelters Open | Household Pets Population | Medical Support Shelters | Meals Prepared | Meals Served | Fixed Feeding Sites Active | Mobile Feeding Units Active |
|--------|---------------------------------------|--------------------------|-----------------|--------------------------------------|---------------------------------|--------------------------------|-------------------|-----------------|-------------------------------------|--------------------------------------|
| DE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

RESOURCE SUMMARY

RESOURCE & CAPABILITIES UPDATE

| | |
|--|------------------------------|
| | Infrastructure Assets Report |
| | |

State-State/EMAC Requests

| State | Resources Requests | Disposition | Pending/Complete |
|-------|--------------------|-------------|------------------|
|-------|--------------------|-------------|------------------|

| | | | |
|----|--|--|--|
| WV | | | |
|----|--|--|--|

| Resource | Region 3 Requested (Y/N) | State Requested (Y/N) | Ordered | In Transit | Total Delivered | Turned Over to the State |
|----------------|--------------------------------|------------------------------|------------------------------|---------------------------|---------------------------|-----------------------------|
| Water | | 2,793,500 liters (151 TL) | 2,800,000 liters (175 TL) | 740,000 liters (40 TL) | 462,500 liters (25 TL) | 370,000 liters (20 TL) |
| Meals | | 100,000 meals (5 TL) | 100,000 meals (5 TL) | | | |
| Cots | | | | | | |
| Blankets | | | | | | |
| Generators | | | | | | |
| Infant/Toddler | | | | | | |
| DME/CMS | | | | | | |

MISSION ASSIGNMENTS

| Tracking # | State | Agency | MA Number | Disaster | Purpose | Cost |
|------------|-------|--------|--------------------|----------|-----------------|----------|
| 01 | WV | EPA | 3366EMWVEPA0200 | 3366EM | RRCC Activation | \$5,000 |
| 02 | WV | HHS | 3366EMWVHHS0200 | 3366EM | RRCC Activation | \$10,000 |
| 03 | WV | USACE | 3366EMWVCOE-LRD-01 | 3366EM | RRCC Activation | \$76,000 |
| 04 | WV | DOD | 3366EMWVDOD0100 | 3366EM | RRCC Activation | \$25,000 |

EXTERNAL AND CONGRESSIONAL AFFAIRS

SOURCE: ESF-15

| State | Type of Request | Congressional Office | Disposition |
|-------|-------------------------------|----------------------|-------------|
| WV | No New Congressional Requests | | |
| PA | | | |
| VA | | | |
| DC | | | |
| DE | | | |
| MD | | | |

SOCIAL MEDIA TRENDS AND DATA

SOURCE: ESF 15

| Common Hashtag/Key Words | Trends | Messaging |
|----------------------------------|--|-----------|
| #WVwater, #Chemicalspill and #WV | <ul style="list-style-type: none"> · WV Water = generic keywords related to the spill · WV users only = generic keywords, only showing users with "West Virginia" in their twitter profile · Shortage/Hospitals = related to critical issues of water shortages or hospitals · Trusted accounts = a handful of official WV government accounts, should they post updates. The American Water company is also being pulled into this list. · Volume has risen since this morning, driven by national news outlets talking about the event · FEMA conversation has been positive & relatively low today; focusing on our role in delivering water · Bulk of conversation is now people sharing general updates about the situation. This is being driven by national news outlets covering the story (e.g. Associated Press, CNN, NBC News) | |
| | | |
| | | |
| | | |
| | | |

INCIDENT STAFFING AND FUNDING [Finance and Admin Section]

| SURGE - | Allocated | Committed + Obligated + Expended (C+O+E) | Available |
|--|-----------|---|-----------|
| Equipment Funds | - | - | - |
| Miscellaneous Funds (Mission Assignments, Contracts, Supplies, etc) | | | |
| S&B Funds | | | |
| Transportation Funds | | | |
| Travel Funds | | | |
| TOTAL FUNDS | | | |

| EM – 3366- WV | Allocated | Committed + Obligated + Expended (C+O+E) | Available |
|--|-----------|---|-----------|
| Equipment Funds | \$0 | \$0 | \$0 |
| Miscellaneous Funds (Mission Assignments, Contracts, Supplies, etc) | \$285,000 | \$40,000 | \$245,000 |
| S&B Funds | \$20,700 | | \$20,700 |
| Transportation Funds | \$332,500 | | \$332,500 |
| Travel Funds | \$84,700 | \$84,700 | \$0 |
| TOTAL FUNDS | \$722,900 | \$124,700 | \$598,200 |

Staffing:

| Location | Deployed | Pending Check-In | Total Staff |
|-----------------------------|-----------|------------------|-------------|
| RRCC | 66 | 0 | 66 |
| IOF / Staging Area | 24 | 6 | 30 |
| WV EOC | 1 | 0 | 1 |
| Frederick, MD | 1 | 0 | 1 |
| IM CORE Remotely Supporting | 1 | 0 | 1 |
| Total | 93 | 6 | 99 |

Region III Operational Priorities Next 24 Hours (Jan 11)

SOURCE: FUTURE PLANNING

- Analyze information to determine what is needed to support commodities and help survivors
- Activate, deploy and support teams to execute mission requirements
- Establish field facilities to support operations
- Move & distribute resources to meet the needs of survivors
- Communicate operational activities to internal and external partners and the public
- Develop demobilization plan for the RRCC

EMERGENCY SUPPORT FUNCTION STATUS REPORT

ESF #1 – Transportation

SOURCE: INFRASTRUCTURE ASSETS GROUP

Not Activated

ESF #2- Communication

SOURCE: DISASTER COMMUNICATIONS COORDINATOR

- Frederick MERS has deployed a communications support package in support of Region 3.
- MERS Assets are currently on location.

ESF #3 – Public Works/Engineering

SOURCE: INFRASTRUCTURE ASSETS GROUP

ESF-3 Update as of 2014-01-10-1615:

1. FEMA Regional Activation MA (EM-3166) has been received. LRD will be administrating the RA and other regional MA for this WV event.
2. USACE National Water SME is supporting this event under the regional Activation.
3. The USACE National PRT remains alerted and prepared to execute a USACE water mission if necessary (No mission at this time).
3. USACE (Detroit District) Combined Commodities PRT has been alerted and ready to respond. (No mission at this time.)
4. USACE TL and ATL have been identified and prepared to support the IMAT upon request by IMAT TL.
6. USACE Assistant Team Leader – Will Rogers – reported to Region III RRCC effective 1500 hrs.
7. USACE hosted a ESF-3 /ESF-10 Water Infrastructure restoration coordination call.

ESF #4 – US Forest Services/Firefighting

SOURCE: EMERGENCY SERVICES GROUP

Not Activated

ESF #6 –Mass Care

SOURCE: Mass Care Emergency Assistance Unit and Voluntary Agency Liaison Unit

- WV VOAD hosted a conference call at 1730 EST. The following was reported on the call:
 - There is an immediate need for water for 300 families in rural Kanawha County that have access and functional needs. This is currently being coordinated with Voluntary Agencies through WV VOAD.
 - The State requested feeding operations to VOAD to assist DHHR for mobile kitchens and health facilities. This is currently being coordinated with Voluntary Agencies through WV VOAD.
 - Various small feeding operations are occurring throughout the affected area but are not beyond the capability of the Voluntary Agencies yet and are not anticipated to be.
 - Voluntary Agencies expressed concern about spiritual and emotional care and they are currently reaching out to the agencies to coordinate behavioral and mental health assessments.
 - The Southern Baptists and the Salvation Army will also support nursing homes, assisted living facilities, and hospitals.
- The American Red Cross reports the following as of 2200 EST:
 - ARC has no open shelters at this time.
 - ARC is feeding residents at various distribution centers, but there is no mobile feeding into neighborhoods unless they are specifically requested through the State EOC. They are

ESF #6 –Mass Care

SOURCE: Mass Care Emergency Assistance Unit and Voluntary Agency Liaison Unit

- distributing donated water and will support the State's water distribution efforts.
 - ARC is directing large water in-kind donations to the Yeager facility for distribution. In-kind donation for distilled water expected within 24 hours to support need discussed on VOAD call.
 - ARC ERVs will be utilized to support nursing homes, assisted living facilities, and hospitals. Thirteen feeding vehicles (ERVs) will be available Saturday morning to support the operation.
- IMAT reports WV has a stock of 20K meals that will be used first. The 100K meals requested by the State will serve as a contingency should the operation last into Monday.
- IMAT request to deploy a VAL Group Supervisor, IA Group Supervisor submitted ARF to fill that request.
- Tyler Mountain Water Company provided FEMA with a detailed inventory at 1400 hrs. Cases of water are available from 3 plants – Reading, PA; Plymouth, MI; and Fairmount, WV. The product is available for distribution as soon as trucks are ready to roll.
- A number of corporate water donations have been made to the affected area. They are being directed to WVDHSEM and WV VOAD and forwarded to IMAT team.
- WV VOAD is in the process of setting up a warehouse at the Salvation Army in Charleston for a donations collections site.
- Forwarded to IMAT an earlier request from a voluntary agency in West Virginia (UMCOR) to the VA VOAD for a shower trailer for verification and follow-up.
- Catholic Charities West Virginia is providing a “text-to-give” service called the “West Virginia Chemical Relief Disaster Fund” for cash donations that will be used to support the delivery of water, baby formula, personal hygiene products and food distribution.
- Mass Care Cell staff held a situational awareness briefing with Waddy Gonzalez, FEMA HQ MC/EA Branch Chief, IA Division.
- ARC now has 8 Emergency Response Vehicles (ERVs) in West Virginia. 6 additional ERVs are in route from Kentucky and Cincinnati, Ohio. All ERVs will be available to deliver water when delivery arrives.

ESF #7 – Resource Support

SOURCE: RESOURCE TRACKER

NOTE: INFORMATION REGARDING RESOURCE STATUS PLEASE REFER TO THE ARF TRACKER

Not Activated

ESF #8 – Public Health/Medical Services

SOURCE: EMERGENCY SERVICES GROUP

HHS:

- 2 staff in place in the RRCC
- 2 staff arrived at the WV EOC approx. 1700

ESF 8 representatives staffing the following facilities:

- FEMA RRCC
- Region 3 Health and Medical Operations Center
- State Health Operations Center

Contamination Levels:

(Source: EPA Region 3 Rep @ FEMA R3 RRCC and FEMA call Jan 10 2014 @1600)

EPA has an On-Scene Coordinator at the plant site in Charleston, WV. They are talking directly with the WV Department of Environmental Protection (DEP), who has the lead for environmental assessment and response. The State has not made any requests to EPA for assistance yet. The chemical has been detected as far as ten miles downstream at 3 ppm. ASTDR/CDC is working with State to determine safe levels. (Note: 1 ppm was mentioned last night but it has not yet been confirmed what is a safe level.) EPA has worked with ATSDR to characterize the chemical properties and is now working to determine any potential mitigation efforts. Last sample reported, levels were 1.7ppm and declining. Since sample are taking approximately 40 minutes to run, the REC are working with the state to find additional labs who can assist with sampling.

Water Supply:

(Source: DCE REP at FEMA RRCC)

They have 36 water buffalos. 12 are in use now; the rest will be in use soon.

Water is being sourced from a clean source (outside the AO) and then checking it to ensure it has the proper level of chlorine and have been cleared by the State Surgeon. The WV National Guard under authority of State Surgeon are responsible for the employment, maintenance and testing of these water buffalos.

ESF #8 – Public Health/Medical Services

SOURCE: EMERGENCY SERVICES GROUP

ESF #9 – Urban Search and Rescue

SOURCE: EMERGENCY SERVICES GROUP

Not Activated

ESF #10 – Oil/Hazmat Response

SOURCE: EMERGENCY SERVICES GROUP

Late Friday evening, West Virginia DEP ordered Freedom Enterprises Inc to begin removing all the chemicals in the 14 above-ground storage tanks at the Elk River spill site within 24 hours. Materials in 3 tanks have already been removed. Freedom must submit a plan to clean up contaminated soil and groundwater before the weekend is over.

OSC Dennis Matlock will return to the State EOC at 6:30 am, OSC Mellisa Linden will return to the facility in the am.

WV DEP enforcement actions: Issued a cease and desist order, issued a Notice of Violation from their air division,

WV DEP has asked the facility to provide an estimate of the quantity of product released from the tank. They have not provided this yet.

WV DEP has directed the facility to contract a certified OSRO as the initial response contractor on-site from the facility was not an OSRO. The facility contracted Clean Harbors.

WV DEP directed the facility to dig a cut-off ditch because the product has migrated through the ground and was coming out a storm drain outfall and continues to enter the river. The soil is very porous because the tank farm is built on top of an area that was filled with old bricks from a brick company (this is visible in the pictures of where the initial larger leak occurred yesterday.)

The company is now collecting a product/water mix from the cut-off ditch. That mixture is being pumped up hill to vacuum trucks and will be disposed of. A vacuum truck is also still removing the product from within the tank farm area under the tank# 396 that is leaking. A pit was dug in the tank farm area and lined with plastic to try to collect this product, so that it does not continue to soak the soil. These vacuum trucks and collection pump are to be a 24-hour a day operation currently with

WV DEP having oversight in shifts for the 24 hour period.

WV DEP has also directed the facility to deploy hard boom in the river, which was done once Clean Harbors arrived. The initial boom that was placed by the facility was absorbent boom and it was laying on top of the ice that lines the shore of the river. Currently the product is under the ice along the shore and as the ice break it releases more product into the river. When there was more of a flow of product it was entering the river by flowing below the ice.

Earlier this evening, EPA contractors conducted air monitoring at the request of WVDEP. Air monitoring provided qualitative data. Using the TVA 1000 no readings were noted on the PID (Photoionization detector). On the FID, flame ionization detector, readings were detected as follows: beginning at .5ppm at about 500 feet off of the property, then 1-7 ppm when the fence-line of the facility was walked, then within the tank farm area it was 7-9 ppm and directly above the open ditch collecting the product directly from the tank the reading was 49-50ppm.

The facility representative provided to the EPA On-Scene Coordinator the following information regarding the products stored in the tanks at the facility: raw glycerin and finished glycerin (which just has water added); Calcium Chloride at concentrations of 28%, 35%, 38%; Lignin; MCHM (product that leaked); RDC 777 (will get more information on what this is on Jan 11, 2014)) and a tank of weak salt. This information was taken from the Etowah River Terminal Inventory Status Report dated January 10, 2014 at 08:23, given to me by the facility.

WV DEP is conducting water sampling from boats in the river. They have not requested EPA assistance with this task.

EPA continues to offer its assistance.

ESF #11 – Agriculture/Natural Resources

SOURCE: Mass Care Emergency Assistance Unit

Not Activated

ESF #12 - Energy

SOURCE: INFRASTRUCTURE ASSETS GROUP

Not Activated

ESF #13 - Public Safety/Security

SOURCE: EMERGENCY SERVICES GROUP

ESF 13 Rep has been monitoring the water emergency situation in Charleston, WV throughout last night and again this morning. I Conducted coordination with ESF #13 Coordinator-Captain Ron Arthur of the West Virginia State Police and he provided me with an update regarding law enforcement matters. Captain Arthur advised that **he does not anticipate any need for additional law enforcement resources**; there is no public mass hysteria, anarchy, etc. in regard to people fighting over available water reserves. Captain Arthur further advised that the West Virginia State Police has no unmet law enforcement needs. Although Region III's ESF#13 Desk has NOT been activated, I will be staffing the desk this afternoon/evening for situational awareness purposes.

ESF #14 Long Term Community Recovery

SOURCE: FDRC

Not Activated

ESF #15 - External Affairs

SOURCE: ESF-15

No update this shift.